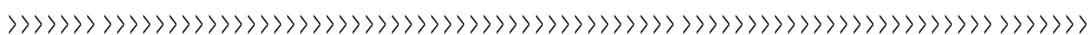


A Transition Toward a Sustainable Energy System I



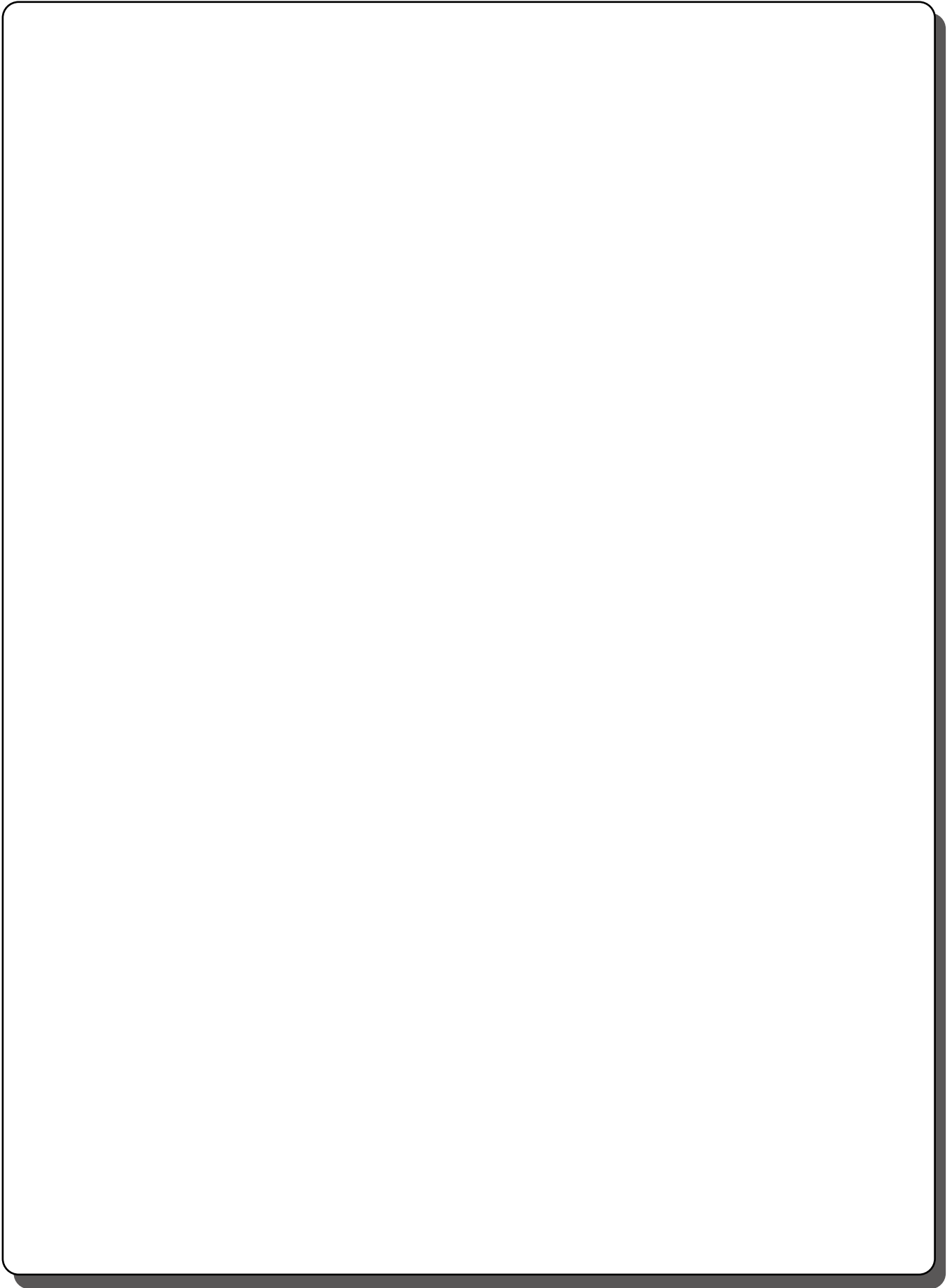
Warm up!



Check the important words and phrases used in the session and what they mean. You can also use the read-aloud voice on the website to check your pronunciation.

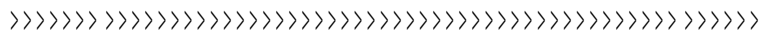
<input checked="" type="checkbox"/> Words & Phrases	訳
<input type="checkbox"/> 1. renewable energy	再生可能エネルギー
<input type="checkbox"/> 2. sustainable	持続可能な
<input type="checkbox"/> 3. global warming	地球温暖化
<input type="checkbox"/> 4. greenhouse effect	温室効果
<input type="checkbox"/> 5. infrared light	赤外線
<input type="checkbox"/> 6. fossil fuel	化石燃料
<input type="checkbox"/> 7. Industrial Revolution	産業革命（歴史上の出来事）
<input type="checkbox"/> 8. time constant	時定数
<input type="checkbox"/> 9. mitigate	～を和らげる、軽くする
<input type="checkbox"/> 10. transition	移行、推移
<input type="checkbox"/> 11. vending machine	自動販売機
<input type="checkbox"/> 12. solar power generation	太陽光発電
<input type="checkbox"/> 13. wind power generation	風力発電
<input type="checkbox"/> 14. gas-fired power generation	ガス火力発電
<input type="checkbox"/> 15. CO ₂ emission	二酸化炭素排出（量）
<input type="checkbox"/> 16. solar panel	太陽電池板、ソーラーパネル
<input type="checkbox"/> 17. on-site	現場で、現場の
<input type="checkbox"/> 18. battery	バッテリー、電池
<input type="checkbox"/> 19. emerging	新たに生じる、新興の
<input type="checkbox"/> 20. hydrogen	水素

[3] Do you have any ideas on how to increase the demand for renewable energy?





Wrap up the session!



[1] The following is the summary passage of the session. Write down the appropriate words in the following blanks of the passage. You may use the same words for several blanks.

One of the main causes of global warming is the use of () (). The use of fossil fuels () a large amount of CO₂. The use of fossil fuels started after the Industrial Revolution, and we have consumed large amounts of fossil fuels for about a hundred years. Fossil fuels, on the other hand, have been produced over billions of years, resulting in a huge () in time constants for the production and the consumption of fossil fuels. In order to solve this problem of the () in time constants and () global warming, we need a () of our energy sources from fossil fuels to renewable energy sources that emit no (). Solar power and wind power are the main () energy sources, but they account for only () percent of Japan's electricity generation or power supply. In addition, we cannot () power generation by either solar or wind power, and other adjustable power supplies are needed to () the gap between the demand for electricity and renewable power generation. At present, we have to rely on () () for this after all, and so it is difficult to reduce CO₂ (). For this reason, we need new ways to increase renewable energy generation, and solar panels and the use of () are good solutions.

[2] Write down what you learned through today's session.

